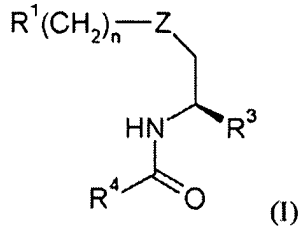
Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims

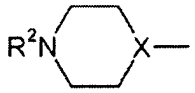
1. (Currently amended): A compound of formula (I)



(I)

in which:-

R^1 represents ~~piperidin-1-yl or~~ a group of formula



in which X represents CH;

R^2 represents a hydrogen atom or a (1-6C)alkyl, (3-6C)cycloalkyl, fluoro(1-4C)alkyl, fluoro(2-4C)alkanoyl, hydroxy(2-4C)alkyl or pyridyl group;

n represents 1, 2 or 3;

Z represents CH_2, O or NR^5, in which R^5 represents a hydrogen atom or a (1-4C)alkyl group~~, provided that when R^1 represents piperidin-1-yl~~

~~and Z represents O or NR^5, then n represents 2 or 3~~;

R^3 represents:-

(i) phenyl which is unsubstituted or substituted by methylenedioxy or by a substituent selected from halogen, (1-4C)alkyl, hydroxy, (1-4C)alkoxy, trifluoromethyl, difluoromethoxy, trifluoromethoxy, (1-4C)alkylthio, (1-4C)alkylsulfinyl, (1-4C)alkylsulfonyl, carboxy, aminocarbonyl, amino, (2-4C)alkanoylamino, aminosulfonyl, (1-4C)alkylaminosulfonyl, nitro, phenyl, phenoxy, benzyloxy and pyridyl;

(ii) pyridyl, pyrimidyl or pyridazinyl, which is unsubstituted or substituted by a halogen atom;

(iii) furyl, thienyl, imidazolyl, thiazolyl, isothiazolyl, oxazolyl, isoxazolyl, thiadiazolyl, each of which is unsubstituted or substituted by (1-4C)alkyl or amino;

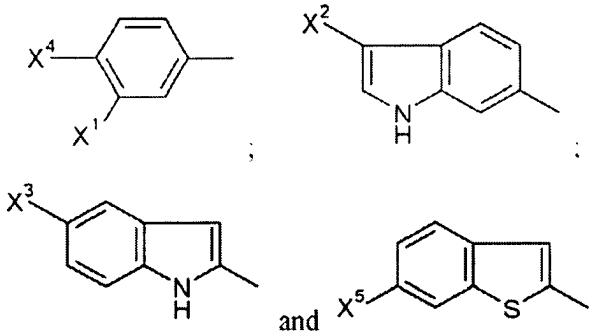
(iv) naphthyl, benzofuryl, benzothienyl, quinolyl or isoquinolyl;

(v) (3-6C)cycloalkyl;

(vi) piperidinyl or tetrahydropyranyl; or

(vii) (1-4C)alkyl, which is unsubstituted or substituted by hydroxy, (1-4C)alkoxy, phenoxy, carboxy, aminocarbonyl, aminosulfonyl, (1-4C)alkylthio, phenylthio, pyridylthio, amino, (1-4C)alkylamino, di(1-4C)alkylamino, piperidin-1-yl, morpholino, trifluoromethyl, phenyl, imidazolyl, pyridyl, (3-6C)cycloalkyl, oxa(4-6C)cycloalkyl, or aza(4-6C)cycloalkyl (which may bear an N-(1-4C)alkyl substituent); and

R^4 is selected from



and

in which

X^1 represents a hydrogen atom, a halogen atom or an amino group;

X^2 represents a hydrogen atom, a methyl group, a chlorine atom or a bromine atom;

X^3 represents a hydrogen atom, a methyl group or a halogen atom;

X^4 represents a chlorine atom, a methoxy group or a methyl group; and

X^5 represents a hydrogen atom, a halogen atom or a methyl group;

or a pharmaceutically acceptable salt thereof.

2. (Canceled)

3. (Canceled)

4. (Currently amended): A compound as claimed in Claim ~~1~~2, in which R^2 represents a (1-6C)alkyl, (3-6C)cycloalkyl, fluoro(1-4C)alkyl, fluoro(2-4C)alkanoyl, hydroxy(2-4C)alkyl or pyridyl group.

5. (Previously presented): A compound as claimed in Claim 4, in which R^2 represents a methyl, ethyl, isopropyl, cyclopropyl, cyclopentyl, 2-fluoroethyl, 2,2,2-trifluoroethyl, trifluoroacetyl, 2-hydroxyethyl or pyrid-4-yl group.

6. (Previously presented): A compound as claimed in Claim 5, in which R^2 represents an isopropyl, cyclopropyl, cyclopentyl or pyrid-4-yl group.

7. (Previously presented): A compound as claimed in Claim 1, in which n represents 1 or 2.

8. (Original): A compound as claimed in Claim 7, in which n represents 1.

9. (Previously presented): A compound as claimed in Claim 1, in which Z represents CH_2.

10. (Previously presented): A compound as claimed in Claim 1, in which Z represents O.

11. (Previously presented): A compound as claimed in Claim 1, in which Z represents NR^5.

12. (Original): A compound as claimed in Claim 11, in which R^5 is hydrogen.

13. (Previously presented): A compound as claimed in Claim 1, in which R^3 represents:-

(i) phenyl, 2,3-methylenedioxyphenyl, 2-fluorophenyl, 4-fluorophenyl, 2-chlorophenyl, 2-methylphenyl, 2-methoxyphenyl, 2-trifluoromethylphenyl, 2-difluoromethoxyphenyl, 4-carboxyphenyl or 4-aminocarbonylphenyl;

(ii) pyrid-2-yl or pyrid-4-yl;

(iii) fur-2-yl, fur-3-yl, thien-2-yl, thien-3-yl, imidazol-2-yl, thiazol-2-yl, thiazol-4-yl, 2-methylthiazol-4-yl or 2-aminothiazol-4-yl;

(iv) naphth-1-yl, naphth-2-yl, benzofuryl, benzothienyl, quinolin-4-yl or quinolin-8-yl;

(v) cyclopropyl, cyclobutyl, cyclopentyl or cyclohexyl; or

(vi) methyl, ethyl, propyl, isopropyl, butyl, 2-methylpropyl, hydroxymethyl, 1-hydroxyethyl, methoxymethyl, 1-methoxyethyl, methylthiomethyl, 2-methylthioethyl, prop-2-ylthiomethyl, N,N-dimethylaminomethyl, phenylthiomethyl, pyrid-2-ylthiomethyl, carboxymethyl, 2-carboxyethyl, aminocarbonylmethyl, 2-aminocarbonylethyl, morpholinomethyl, 2,2,2-trifluoroethyl, benzyl, pyrid-2-ylmethyl, pyrid-3-ylmethyl, pyrid-4-yl-

methyl, imidazol-1-ylmethyl, imidazol-4-ylmethyl, 3-methylimidazol-4-ylmethyl, cyclohexyl-4-ylmethyl, tetrahydropyran-4-ylmethyl, piperidin-1-ylmethyl or 1-methylpiperidin-4-ylmethyl.

14. (Original): A compound as claimed in Claim 13, in which R^3 represents phenyl, 2-fluorophenyl or 2-chlorophenyl.

15. (Previously presented): A compound as claimed in Claim 14, in which R^3 represents phenyl.

16. (Canceled)

17. (Canceled)

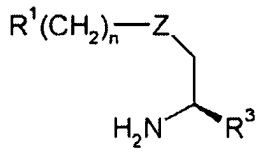
18. (Previously presented): A compound as claimed in Claim 1, in which R^4 is 4-chlorophenyl, 4-methoxyphenyl, indol-6-yl, 3-methylindol-6-yl, 3-chloroindol-6-yl, 5-chloroindol-2-yl or 6-chlorobenzo[b]thiophen-2-yl.

19. (Previously presented): A compound as claimed in Claim 18, in which R^4 is 4-methoxyphenyl, indol-6-yl or 5-chloroindol-2-yl.

20. (Previously presented): A pharmaceutical composition, which comprises a compound as claimed in Claim 1, together with a pharmaceutically acceptable diluent or carrier.

21. (Currently amended, withdrawn): A process for preparing a compound as claimed in Claim 1, which comprises

(a) reacting a compound of formula (II)



(II)

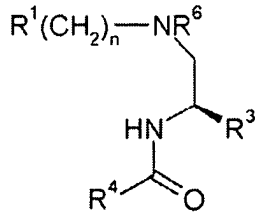
or a salt thereof, with a compound of formula (III)

(III)

or a reactive derivative thereof;

(b) for a compound of formula I in which R^2 represents a (1-6C)alkyl, (3-6C)cycloalkyl, fluoro(1-4C)alkyl, fluoro(2-4C)alkanoyl or hydroxy(2-4C)alkyl, reacting a corresponding compound of formula (I) in which R^2 represents a hydrogen atom, or a salt thereof, with an alkylating or acylating agent;

(c) for a compound of formula (I) in which Z represents NH, deprotecting a compound of formula



(IV)

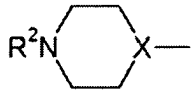
in which R^6 represents an amino protecting group; or

(d) for a compound of formula (I) in which R^2 represents a hydrogen atom, deprotecting a compound of formula (I) in which R^2 represents a protecting group;

followed, if a pharmaceutically acceptable salt is desired, by forming a pharmaceutically acceptable salt;

wherein, unless otherwised defined, ~~R^1, n, Z, R^3 and R^4 are as defined in Claim 1~~

R^1 represents a group of formula



in which X represents CH;

R^2 represents a hydrogen atom or a (1-6C)alkyl, (3-6C)cycloalkyl, fluoro(1-4C)alkyl, fluoro(2-4C)alkanoyl, hydroxy(2-4C)alkyl or pyridyl group;

n represents 1, 2 or 3;

Z represents CH_2, O or NR^5, in which R^5 represents a hydrogen atom or a (1-4C)alkyl group;

R^3 represents:-

(i) phenyl which is unsubstituted or substituted by methylenedioxy or by a substituent selected from halogen, (1-4C)alkyl, hydroxy, (1-4C)alkoxy, trifluoromethyl,

difluoromethoxy, trifluoromethoxy, (1-4C)alkylthio, (1-4C)alkylsulfinyl, (1-4C)alkylsulfonyl, carboxy, aminocarbonyl, amino, (2-4C)alkanoylamino, aminosulfonyl, (1-4C)alkylaminosulfonyl, nitro, phenyl, phenoxy, benzyloxy and pyridyl;

(ii) pyridyl, pyrimidyl or pyridazinyl, which is unsubstituted or substituted by a halogen atom;

(iii) furyl, thienyl, imidazolyl, thiazolyl, isothiazolyl, oxazolyl, isoxazolyl, thiadiazolyl, each of which is unsubstituted or substituted by (1-4C)alkyl or amino;

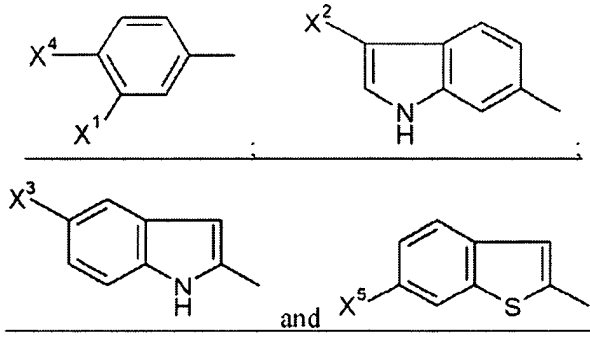
(iv) naphthyl, benzofuryl, benzothienyl, quinolyl or isoquinolyl;

(v) (3-6C)cycloalkyl;

(vi) piperidinyl or tetrahydropyranyl; or

(vii) (1-4C)alkyl, which is unsubstituted or substituted by hydroxy, (1-4C)alkoxy, phenoxy, carboxy, aminocarbonyl, aminosulfonyl, (1-4C)alkylthio, phenylthio, pyridylthio, amino, (1-4C)alkylamino, di(1-4C)alkylamino, piperidin-1-yl, morpholino, trifluoromethyl, phenyl, imidazolyl, pyridyl, (3-6C)cycloalkyl, oxa(4-6C)cycloalkyl, or aza(4-6C)cycloalkyl (which may bear an N-(1-4C)alkyl substituent); and

R^4 is selected from



in which

X^1 represents a hydrogen atom, a halogen atom or an amino group;

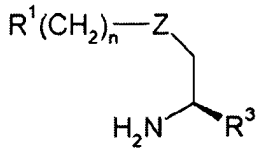
X^2 represents a hydrogen atom, a methyl group, a chlorine atom or a bromine atom;

X^3 represents a hydrogen atom, a methyl group or a halogen atom;

X^4 represents a chlorine atom, a methoxy group or a methyl group; and

X^5 represents a hydrogen atom, a halogen atom or a methyl group.

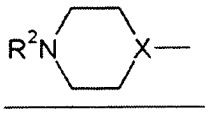
22. (Currently amended): A compound of formula (II)



(II)

or a salt thereof, in which ~~R^1, n, Z and R^3 are as defined in Claim 1~~

R^1 represents a group of formula



in which X represents CH;

R^2 represents a hydrogen atom or a (1-6C)alkyl, (3-6C)cycloalkyl, fluoro(1-4C)alkyl, fluoro(2-4C)alkanoyl, hydroxy(2-4C)alkyl or pyridyl group;

n represents 1, 2 or 3;

Z represents CH_2, O or NR^5, in which R^5 represents a hydrogen atom or a (1-4C)alkyl group; and

R^3 represents:-

(i) phenyl which is unsubstituted or substituted by methylenedioxy or by a substituent selected from halogen, (1-4C)alkyl, hydroxy, (1-4C)alkoxy, trifluoromethyl, difluoromethoxy, trifluoromethoxy, (1-4C)alkylthio, (1-4C)alkylsulfinyl, (1-4C)alkylsulfonyl, carboxy, aminocarbonyl, amino, (2-4C)alkanoylamino, aminosulfonyl, (1-4C)alkylaminosulfonyl, nitro, phenyl, phenoxy, benzyloxy and pyridyl;

(ii) pyridyl, pyrimidyl or pyridazinyl, which is unsubstituted or substituted by a halogen atom;

(iii) furyl, thienyl, imidazolyl, thiazolyl, isothiazolyl, oxazolyl, isoxazolyl, thiadiazolyl, each of which is unsubstituted or substituted by (1-4C)alkyl or amino;

(iv) naphthyl, benzofuryl, benzothienyl, quinolyl or isoquinolyl;

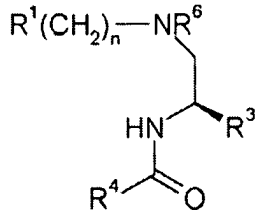
(v) (3-6C)cycloalkyl;

(vi) piperidinyl or tetrahydropyranyl; or

(vii) (1-4C)alkyl, which is unsubstituted or substituted by hydroxy, (1-4C)alkoxy, phenoxy, carboxy, aminocarbonyl, aminosulfonyl, (1-4C)alkylthio, phenylthio, pyridylthio, amino, (1-4C)alkylamino, di(1-4C)alkylamino, piperidin-1-yl, morpholino, trifluoromethyl,

phenyl, imidazolyl, pyridyl, (3-6C)cycloalkyl, oxa(4-6C)cycloalkyl, or aza(4-6C)cycloalkyl (which may bear an N-(1-4C)alkyl substituent).

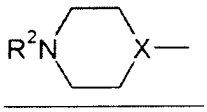
23. (Currently amended): A compound of formula (IV)



(IV)

or a salt thereof, in which R^6 represents an amino protecting group, and ~~R^1, n, R^3 and R^4 are as defined in Claim 1~~

R^1 represents a group of formula



in which X represents CH;

R^2 represents a hydrogen atom or a (1-6C)alkyl, (3-6C)cycloalkyl, fluoro(1-4C)alkyl, fluoro(2-4C)alkanoyl, hydroxy(2-4C)alkyl or pyridyl group;

n represents 1, 2 or 3;

R^3 represents:-

(i) phenyl which is unsubstituted or substituted by methylenedioxy or by a substituent selected from halogen, (1-4C)alkyl, hydroxy, (1-4C)alkoxy, trifluoromethyl, difluoromethoxy, trifluoromethoxy, (1-4C)alkylthio, (1-4C)alkylsulfinyl, (1-4C)alkylsulfonyl, carboxy, aminocarbonyl, amino, (2-4C)alkanoylamino, aminosulfonyl, (1-4C)alkylaminosulfonyl, nitro, phenyl, phenoxy, benzyloxy and pyridyl;

(ii) pyridyl, pyrimidyl or pyridazinyl, which is unsubstituted or substituted by a halogen atom;

(iii) furyl, thienyl, imidazolyl, thiazolyl, isothiazolyl, oxazolyl, isoxazolyl, thiadiazolyl, each of which is unsubstituted or substituted by (1-4C)alkyl or amino;

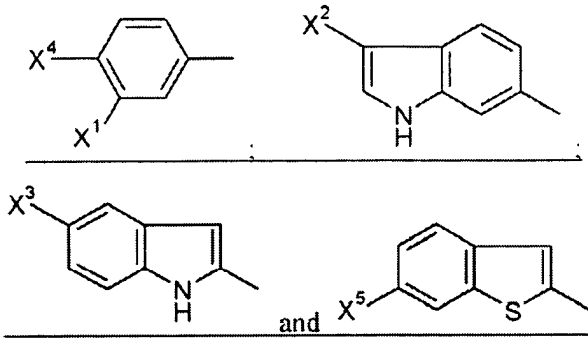
(iv) naphthyl, benzofuryl, benzothienyl, quinolyl or isoquinolyl;

(v) (3-6C)cycloalkyl;

(vi) piperidinyl or tetrahydropyranyl; or

(vii) (1-4C)alkyl, which is unsubstituted or substituted by hydroxy, (1-4C)alkoxy, phenoxy, carboxy, aminocarbonyl, aminosulfonyl, (1-4C)alkylthio, phenylthio, pyridylthio, amino, (1-4C)alkylamino, di(1-4C)alkylamino, piperidin-1-yl, morpholino, trifluoromethyl, phenyl, imidazolyl, pyridyl, (3-6C)cycloalkyl, oxa(4-6C)cycloalkyl, or aza(4-6C)cycloalkyl (which may bear an N-(1-4C)alkyl substituent); and

R^4 is selected from



in which

X^1 represents a hydrogen atom, a halogen atom or an amino group;

X^2 represents a hydrogen atom, a methyl group, a chlorine atom or a bromine atom;

X^3 represents a hydrogen atom, a methyl group or a halogen atom;

X^4 represents a chlorine atom, a methoxy group or a methyl group; and

X^5 represents a hydrogen atom, a halogen atom or a methyl group.

24. (Canceled)

25. (Canceled)

26. (Original): A method of treating a thrombotic disorder in a mammal requiring treatment, which comprises administering an effective amount of a compound as claimed in Claim 1.

27. (Previously presented): A compound as claimed in Claim 1 which is 3-chloro-N-[(R)-1-phenyl-2-(1-isopropylpiperidin-4-ylmethoxy)ethyl]-1H-indole-6-carboxamide, or a pharmaceutically acceptable salt thereof.